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# Maxiwell Luo

913 Ashford Lane
Westmont, IL 60559

## Education

**University of Illinois at Urbana-Champaign** — Urbana-Champaign, IL
Bachelor of Science, Computer Science + Master of Computer Science — Graduation: May 2021
GPA: 3.67/4.0

**Hinsdale Central High School** — Hinsdale, IL
Valedictorian — August 2013 – May 2017
GPA: 5.93/5.0

## Relevant Courses

Applied Cryptography (IP); Advanced Computer Security (IP); ML for Sys, Networks, & Security (IP); Machine Learning; Computer Security II; Applied Parallel Programming; Interactive Computer Graphics; Programming Languages and Compilers; Algorithms; Top Down Video Game Design; Game Dev Process; Communication Networks; Computer Security I; Algorithms & Models of Computation; UI Design; Probability and Statistics; System Programming; Applied Linear Algebra; Numerical Methods I; Computer Architecture; Data Structures

## Work Experience

**8i, Software Engineering Intern** — Chicago, IL
Developed features for an internal MPEG-DASH player to support the company's proprietary mesh, video, and audio codec including seek, caching, and adaptive bitrate selection using the C++ Qt Framework — May 2020 – August 2020

**Eagle Seven, Software Development Intern** — Chicago, IL
— Wrote software to calculate network performance metrics of high-frequency trade engines
— Improved the automation, comparison, and real-time tracking capabilities of the performance testing framework through InfluxDB and Grafana to drive future development — May 2019 – August 2019

**Fermilab, Software Intern** — Batavia, IL
Using C, implemented and analyzed the effectiveness of data compression algorithms for use in data collection during experiments — June 2016 – July 2016

**Chess Tutor** — Woodridge, IL
Trained children in one-on-one sessions to improve their chess skills and prepare them for more competitive levels of chess — July – August 2016 – 2017

## Projects

**neuralMario** — Hinsdale, IL
Implemented a NEAT (NeuroEvolution of Augmenting Topologies) algorithm to create an AI that could play Super Mario World — May 2017

## Activities

**CS 225 Data Structures, Teaching Assistant** — Urbana-Champaign, IL
Lead discussions with students to foster educational dialogue concerning the use of data structures in computer science — August 2020 – Present

**UIUC SigPWNy** — Urbana-Champaign, IL
Collaborated with peers to teach one another computer security topics and techniques to exploit security vulnerabilities — 2017 – Present

**SAIL 2018** — Urbana-Champaign, IL
Taught basic programming language implementation to high school students — April 2018

**Robotics Team** — Hinsdale, IL
— Designed and built robots to compete in the FIRST Robotics Competition on team DevilStorm Robotics
— Trained new members in fundamental programming techniques — 2013 – 2017

## Skills

**Proficient** in C/C++, Java, Python

**Intermediate** knowledge of Verilog, HTML/CSS, Javascript (Angular), InfluxDB, Grafana, Unity, Unreal Engine, WebGL, Android app development, Qt Framework, Chinese

**Basic** skills with Rust, OCaml, x86 Assembly, Japanese